subLOGIC Scenery Disk

Operating Handbook

Disk Design and Tool Development by Michael Woodley
Scenery Design by Loren Kirkwood
Maps by Michelle Maase

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SubLOGIC Corporation
501 Kenyon Road
Champaign, IL 61820
(217) 359-8482

SUBLOGIC MEDIA POLICY

SubLOGIC Corporation warrants all media for a period of three months from the date of purchase. We will replace any media that are out of warranty at a minimal charge.* SubLOGIC will extend this replacement service for a period of not less than ten years after purchase.

If you wish to return a defective disk, please return the media only. We have established an efficient and very fast repair/replacement system which promises long-run benefits to you. Returning manuals and/or packaging will complicate the system and will raise shipping costs.

While our turnaround time on defective media is very fast, a backup copy of this disk is also available from SubLOGIC for $10.00 plus proof of purchase. Please specify your computer system and disk format requirements (where applicable) when ordering a backup. If proof of purchase is not available, you may send your disk as proof. We will return the disk and a backup copy to you.

* Example: Replacement charge as of August 1, 1989 — $10.00 for a disk.

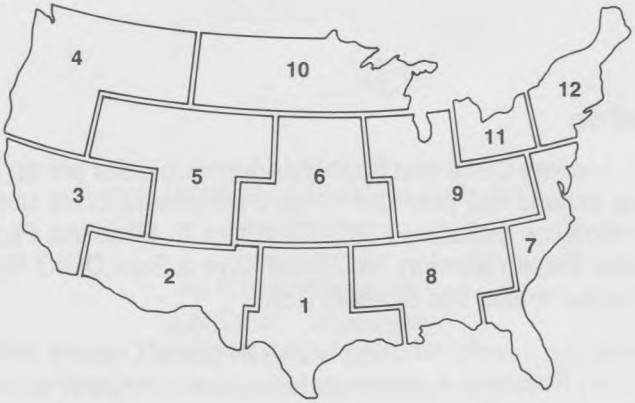
Introduction

SubLOGIC Scenery Disks and Scenery Adventure disks are an enhancement designed to expand the potential flying environment of all SubLOGIC flight simulation products including Flight Simulator II, Microsoft Flight Simulator, UFO, Jet and Stealth Mission. You must have a SubLOGIC flight simulation program in order to use this Scenery Disk.

Scenery Disks are developed using NOAA (National Oceanic and Atmospheric Administration) Sectional Aeronautical Charts and Airport/Facility Directories. These charts divide the world into hundreds of different sectionals. Each sectional includes all of the airfields and radio-navigation aids in the area covered by the chart. Sectional charts also show topographical information and obstacles important to aviators. Scenery Disk databases are digitized from these NOAA sectionals.

Twelve Scenery Disks cover the continental United States. Each disk covers a geographical region of the country and includes the major airports, radio-nav aids, cities, highways, rivers, and lakes located in that region. Scenery Disks #1 through #6 cover the Western U.S. with the minimal amount of scenery necessary for cross-country navigation. Disks #7 through #12 will cover the Eastern U.S. in much greater detail, with enough scenery for both visual flight (sightseeing) and VFR or IFR cross-country navigation. A typical Scenery Disk (SD) covers three aeronautical sectionals and includes approximately 100 airports and 100 radio-nav aids. Some SDs may be more detailed since some areas of the country are more densely populated than others.

U.S. Scenery Disk areas are grouped as follows:



WEST

1. Dallas-Ft.Worth
   Houston
   San Antonio
   Brownsville

2. Phoenix
   Albuquerque
   El Paso

3. San Francisco
   Los Angeles
   Las Vegas

4. Klamath Falls
   Seattle
   Great Falls

5. Salt Lake City
   Cheyenne
   Denver

6. Omaha
   Wichita
   Kansas City

EAST

7. Washington
   Charlotte
   Jacksonville
   Miami

8. Memphis
   Atlanta
   New Orleans

9. Chicago
   St. Louis
   Cincinnati

10. Billings
    Twin Cities
    Green Bay

11. Lake Huron
    Detroit

12. Halifax
    Montreal
    New York

Scenery Disks for other areas of the world are also available. Japan Scenery Disk covers the area from Tokyo to Osaka in great detail. "Western European Tour" Scenery Disk provides detailed scenery covering southern Great Britain, northern France, and southern West Germany, with a side trip to Red Square in Moscow! San Francisco Scenery Disk covers the Bay area in great detail, and is designed primarily for local area sightseeing.

Scenery Disks are available in 5-1/4" and/or 3-1/2" disk format for most computer systems. Contact SubLOGIC for information on which scenery areas and disk formats are currently available for your system.

Reading a Sectional Directory

Below is a sample listing from a sectional directory with a description of the information provided. All available airports and radio-nav aids for a given sectional are listed alphabetically. Radio transmitters that border a sectional are also available on neighboring sectionals, so you can cross sectional boundaries when instrument flying.

(1) 24 - **CHICAGO** (2)

(3) **Sheboygan Co. Mem. WI**

(4) 18001N 16580E (5)
(6) alt. 748

(7) RWY 13-31 3995 X 75 (8)
RWY 3-21 5000 X 100

(9) **Sheboygan, WI (NDB)** (10)

17998N 16580E
(11) freq. 254

(9) **Shelbyville, IN (VOR)** (10)

16240N 17280E
(11) freq. 112

1	Page number
2	Sectional name
3	Airport name
4	North coordinate
5	East coordinate
6	Altitude in feet
7	Runway Designator, number
8	Runway dimensions in feet
9	Radio Aid name
10	Radio Aid type designator
11	Radio Aid frequency

Notice that the vertical sides of the airport map align with magnetic north. Magnetic north is the direction you are pointing when your magnetic compass reads 0. Each sectional map's VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals.

Using a Scenery Disk with Flight Simulator

Please refer to the Loading Instructions included with this Scenery Disk package.

Using a Scenery Disk with Jet and other SubLOGIC Simulations

Refer to the program operating manual for instructions on how to load and use a Scenery Disk with your flight simulation program.

Conclusion

We intend to periodically update and improve our Scenery Disks to include more airports, radio aids and scenery details recommended by users. If you know of an airport (or other detail) that should be included on future versions of these Scenery Disks, please drop us a line and include the required information ON A SEPARATE SHEET OF PAPER so we may store it in our files. Here's what we need to know:

Airports:	Name, City, & State
	Latitude, Longitude, & Altitude
	Heading, Length, & Width of each runway
Buildings, objects:	Name, City, & State
	Latitude, Longitude, & Dimensions

Pictures and postcards are also welcome, especially aerial views. If you're unable to determine latitude and longitude, please provide a description of where the airport/object can be located on a map. All customer correspondence is read (and answered when possible). And please remember to include any scenery suggestions or information on a SEPARATE page of your letter.

APPLE II & COMMODORE 64/128
SCENERY DISK LOADING INSTRUCTIONS

Using a Scenery Disk with Flight Simulator II

Load Flight Simulator II in the usual way. When the program has finished loading, enter the simulator's program editor (as described in the FS2 Pilot's Operating Handbook) and set the North and East coordinates of the airport you've chosen from the sectional map for the region you'd like to explore. Set Altitude to 0. Exit the editor, remove the FS2 disk from the disk drive, and insert the appropriate Scenery Disk. Press [CTRL][E] to log in the Scenery Disk. A menu page will be displayed listing the names of the sectionals included on the disk. Press any key to exit this menu and you should find yourself at the airport you've selected. If no scenery is visible, re-enter the program editor and double check your coordinates, making sure that both North and East coordinates are correct.

When you find yourself at the airport you've selected, it may be a good idea to save your position to a user mode (see User Mode Library in the Pilot's Operating Handbook). This way, if you crash, you will be returned to the selected airport. Otherwise you will be returned to a preset location in the default database.

Crossing a Sectional Boundary

One of two things can occur when you fly over a sectional boundary. If the neighboring sectional is also included on the Scenery Disk, that sectional will load and you will have to switch to the appropriate new sectional map. If the neighboring sectional is not available on the disk, a common default database will load. This default database allows you to zoom out in radar mode to view the major geographical features of the area of the world in which you are flying.

If you have another Scenery Disk containing the appropriate sectional, you can switch disks and press [CTRL][E] to log in the new disk. A menu page will be displayed listing the names of the sectionals included on this disk. Press any key to exit and return to Flight Simulator II.

IMPORTANT - Any time you change Scenery Disks, you must log in the new disk by pressing [CTRL][E]. If you do not log in the new disk, you will not see any new scenery and you risk causing a disk load error.

Using a Scenery Disk with other SubLOGIC Flight Simulations

Refer to the program operating manual for instructions on how to load and use a Scenery Disk with your flight simulation program.